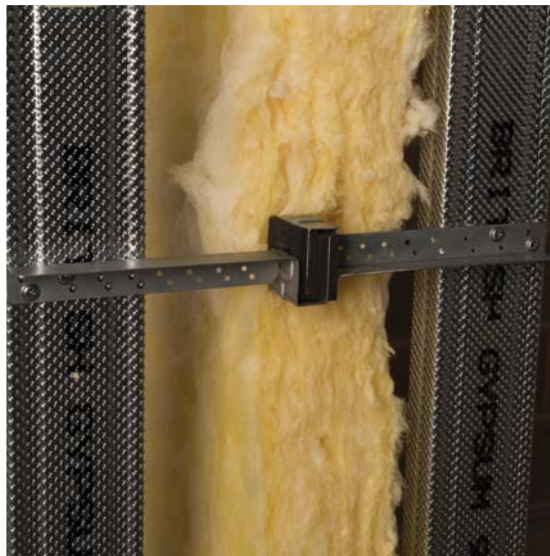
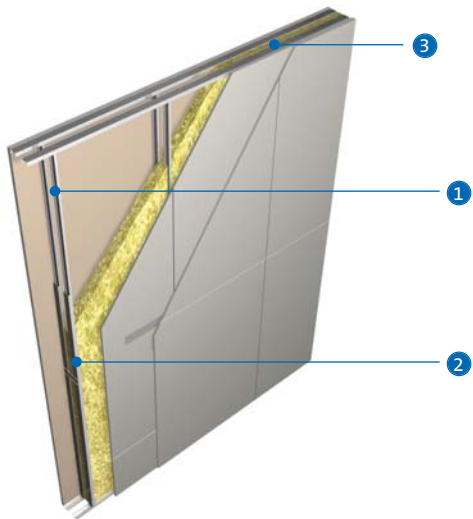


## The ultimate sound insulating wall system

GypWall™ AUDIO is a non-loadbearing, twin frame high performance wall system that provides exceptionally high levels of sound insulation. It is used to separate multiple use facilities such as lecture theatres, music rooms, multi-screen cinemas, conference centres, and leisure centres.





- 1 Gypframe 'C' Stud
- 2 Gypframe GAB3 Acoustic Brace or Gypframe 99 FC 50 Fixing Channel
- 3 Gypframe Floor & Ceiling Channel

### Key facts

- Exceptionally high levels of sound insulation
- Can exceed sound insulation requirements for cinemas equipped with high performance sound systems
- Can achieve high levels of sound insulation
- Up to 120 minutes fire resistance
- Satisfies BS5234 strength and robustness requirements for Severe Duty
- Can provide fire protection to structural steel within the wall cavity
- Lightweight, compared to masonry alternatives
- Can be built to a maximum height of 11.5 metres
- Gypframe GAB3 Acoustic Brace provides a resilient brace to give optimum acoustic performance

## Components

### Gyproc board products



#### Gyproc WallBoard

Thickness	12.5, 15mm
Width	1200mm



#### Gyproc FireLine

Thickness	12.5, 15mm
Width	1200mm



#### Gyproc SoundBloc

Thickness	12.5, 15mm
Width	1200mm



#### Gyproc Plank

Thickness	19mm
Width	600mm



#### Gyproc DuraLine

Thickness	15mm
Width	1200mm

### Gypframe metal products



#### Gypframe 92 S 10 'C' Studs



#### Gypframe Standard Floor & Ceiling Channel 94 C 70

#### Gypframe Deep Flange Floor & Ceiling Channel 94 DC 60

#### Gypframe Extra Deep Flange Floor & Ceiling Channel 94 EDC 70



#### Gypframe 99 FC 50 Fixing Channel

Length	2400mm
--------	--------



#### Gypframe GFS1 Fixing Strap

Length	2400mm
--------	--------

### Gypframe metal products

---



**Gypframe GA5 Internal Fixing Angle**



**Gypframe GA6 Splayed Angle**



**Gypframe GAB3 Acoustic Brace**

---

### Fixing and finishing products

---



**Gyproc Jack-Point Screws**

For fixing boards to stud framing 0.8mm thick or greater and T studs greater than 0.55mm thick.



**Gyproc Wafer Head Jack-Point Screws**

For metal-to-metal fixing 0.8mm thick or greater and T studs greater than 0.55mm thick



**Gyproc Sealant**

For sealing airpaths to achieve optimum sound insulation.



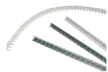
**Gyproc jointing materials**

For seamless jointing.

---

## Components

### Fixing and finishing products



#### **Gyproc edge beads**

Protecting and enhancing board edges.



#### **Gyproc Control Joint**

To accommodate structural movement.



#### **Gyproc FireStrip**

For sealing deflection heads.

### Fixing and finishing products



#### **Gyproc Skimcoat, Gyproc Carlite Finish or Gyproc Board Finish**

Providing a plaster finish.



#### **Moy Plus Roll**

For enhanced acoustic performance.



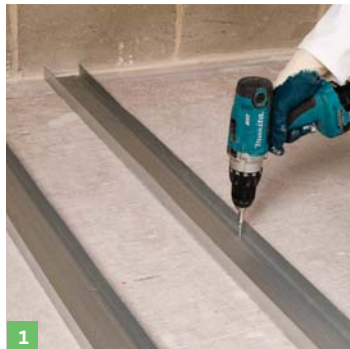
#### **Stone mineral wool**

62kg/m<sup>3</sup> slab.

## Construction tips

- The following points should be considered in addition to the construction tips for GypWall™
- The estimated construction time is 0.5m<sup>2</sup> / man hour (nominal 6m high wall) ready for finishing
- Any openings will require careful detailing if the acoustic performance is to be maintained. Specialist heavy acoustic doorsets may require additional support. Contact Gypsum Industries Technical Sales Department for guidance.

## Installation



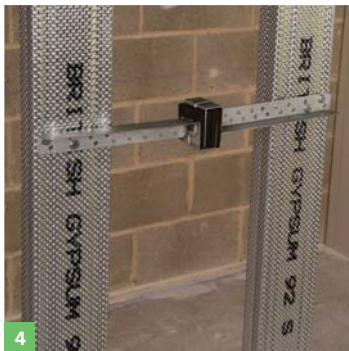
- Determine and mark the wall position and make allowances for openings.
- Fix two rows of 94mm Gypframe Floor & Ceiling Channel using two rows of staggered fixings (by others) at 600mm centres in each channel, each row staggered by 300mm.
- On uneven floors, 38mm deep timber sole plates may be required.
- On new concrete or screeding, consider initially installing a damp proof membrane to the underside of the channels or sole plates.



- Cut stud lengths to a neat fit (maximum possible entry into head channel), unless deflection head detailing is requested.
- Locate first stud, twist into position and fix to the abutting wall with suitable fixings (by others).
- Locate further studs at required centres (typically 600mm) to a friction fit within the channel sections - this allows for adjustment during boarding.

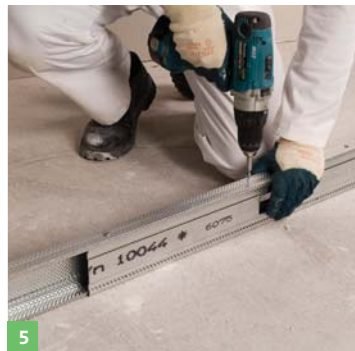


- Where studs are used at heights greater than 4m, consider locking into the floor channel using Gyproc Wafer Head Jack-Point Screws.
- The second framework is installed as the first, with stud frameworks spaced to achieve the specified wall thickness.
- **NB** Cut studs to size using a chop saw, hacksaw or snips.
- Brace the two frameworks together by fixing short lengths of Gypframe 99 FC 50 Fixing Channel, evenly spaced at 3600mm maximum centres, inserting four Gyproc Wafer Head Jack-Point Screws to each stud position.
- Braces are installed at mid-height for partitions up to 3600mm.



- Alternatively, where specified, fix Gypframe GAB3 Acoustic Brace to optimise the acoustic isolation. Install Gypframe Acoustic Braces at 3300mm maximum centres. Insert two Gyproc Wafer Head Jack-Point Screws to each stud position.

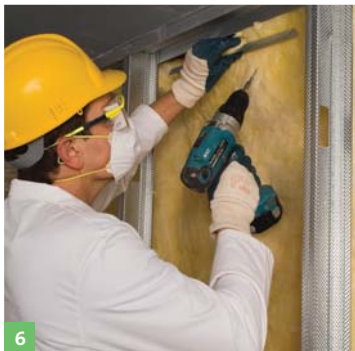
**NB** The Gypframe GAB3 Acoustic Brace may be cut using a hack saw or power tool. If required, the Gypframe GAB3 Acoustic Brace can be extended by fixing a short length of Gypframe 92 S 10 'C' stud to one brace with 4 no. Gyproc Wafer Head Jack-Point Screws, ensure a 150mm minimum overlap. The short length of stud should also be fixed to the vertical studs with 4 no. Gyproc Wafer Head Jack-Point Screws.



### Splicing 'C' Studs

- To extend 'C' studs, if required, splice and locking together with a minimum 600mm nested overlap.
- Fix together using three evenly spaced Gyproc Wafer Head Jack-Point screws through each flange.





- Install Moy Isover insulation or stone wool (as required) progressively as boarding proceeds.
- Moy Isover insulation can be hung within the partition by trapping at the partition head using Gypframe Steel Angle.



- Apply Gyproc Sealant to both sides of frame perimeter to provide optimum acoustic performance.

#### Openings

- Construct openings so as to maintain the acoustic performance.
- Where specialist heavy acoustic doorsets are specified, these will require additional support. Contact Gypsum Industries for suitable detailing / guidance.



#### Board fixing

- Fix boards to all framing members at 300mm centres using the appropriate length Gyproc screws.
  - Reduce centres to 200mm at external angles.
- NB** Select appropriate screw length to provide a nominal 10mm penetration into the Gypframe Steel framing.
- Under layer boards do not require centre fixings.



- Where Gyproc Plank is specified, fix horizontally to framing members using two screws to each stud, including each cut end. Half-stagger end joints in alternate courses.